

RN42 active barrier, wide range power supply

1-channel wide range supply and active barrier for safe isolation of 4 to 20 mA standard signal circuits



Benefits:

- Wide range power supply of 19.2 to 253 V_{AC/DC}
- Quick and easy wiring thanks to plug-in terminals
- Optional for safety-oriented applications up to SIL 2 (SC3) in accordance with IEC 61508
- Optional installation in Ex Zone 2
- Compact housing width with 17.5 mm (0.69 in) for efficient use of space
- Option for installation rotated by 180° (terminals for power supply at top or bottom)

Specs at a glance

- **Input** 0/4...20 mA / HART feeding/not feeding
- **Output** 0/4...20 mA / HART active/passive
- **Power Supply** 20...250 V AC/DC

from **€122.00**

Price as of 01.10.2022

More information and current pricing:

www.endress.com/RN42

Field of application: The active barrier is used for transmission and galvanic isolation of 4 to 20 mA/HART signals. The device has an active / passive current input to which a 2- or 4-wire transmitter can be connected directly. The output of the device can be operated actively or passively. The current signal is then available to the PLC / controller or for further instrumentation at pluggable screw or optional push-in terminals.

Features and specifications

Power supplies & barrier**Measuring principle**Active barrier

Measuring principleActive barrier

Function1-channel

Loop power supply17,5 V \pm 1 V bei 20 mAopen circuit voltage: 24,5 V \pm 5 %

Power Supply20...250 V AC/DC

Input

0/4...20 mA / HART

feeding/not feeding

Output

0/4...20 mA / HART

active/passive

Certificates

ATEX II3G Ex tc IIIC Dc

CSA C/US AIS, I/2/ABCD

EAC [Ex ia Ga] IIC, [Ex ia Da] IIIC, Ex ec IIC Gc

JPN [Ex ia Ga] IIC, [Ex ia Da] IIIC, Ex ec IIC Gc

INMETRO [Ex ia Ga] IIC, [Ex ia Da] IIIC, Ex ec IIC Gc

NEPSI [Ex ia Ga] IIC, [Ex ia Da] IIIC, Ex ec IIC Gc

UK II3G Ex tc IIIC Dc

UK II(1)G [Ex ia Ga] IIC, II(1)D [Ex ia Da] IIIC, II3G Ex ec IIC Gc

ATEX IECEX II(1)G [Ex ia Ga] IIC, II(1) D [Ex ia Da] IIIC, II3G Ex ec IIC Gc

UL C/US

DNV

Power supplies & barrier

SIL
SIL 2 SC 3

Operation
HART

More information www.endress.com/RN42